

## A new Species of *Tropidia* (Syrphidae) from Montana (Dipt.).

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In the Syrphid collection of the Montana Experiment Station there were several specimens of this insect all collected in Bozeman, on June 20, 1906. There are no notes concerning this particular collection, nor have any specimens been located in all the material collected since that time in the vicinity of Bozeman. In 1916, specimens of this fly were sent to Chas. W. Johnson, at Boston, who determined it as a new species of *Tropidia* and returned the specimens to this office. Since that time no species of *Tropidia* has been described, so far as is known, which corresponds to this one. Though it runs near *quadrata* in the key to the species of *Tropidia* published by Hunter, in Entomological News (Vol. 7, p. 215), it is entirely different and can be readily separated from that species.

The following description was made from two type specimens, one of each sex, and 18 paratypes, nine of each sex, all perfect specimens. In honor of Prof. R. A. Cooley, of the Montana Experiment Station and State College, the name of *cooleyi* is suggested for this species.

### *Tropidia cooleyi* sp. nov.

Front in both sexes golden sericeous except for keel of carina, and oral margin, which are shiny black; vertex darker than front, covered with a long, dark pile; cheeks and occiput with covering of yellow pile; antennae black, or brown sericeous, first and second segments each with one or more small spines, third segment rounded. Carina of male more acute than that of female, which appears as a rounded, almost globular protuberance below the antennae.

Dorsum of thorax for the most part black, with a narrow median stripe of gray flanked by two broader bands of gray extending almost or quite to the scutellum, and with gray bands bordering the pleura; entire thorax covered with golden yellow pubescence. Scutellum shining black, or with tip ochraceous.

Abdomen black, sparsely covered with yellow pile; sometimes in females with two more or less distinct grayish spots on second segment.

Legs black; all knees yellow or ochraceous; hind tibia, and sometimes middle tibia with distinct ochraceous band about the middle; hind femur with distinct depression on anterior face near distal end; and equipped at lower distal portion of this depression with a distinct row of short, black spines in the female, and from one to five spines in the male; all legs covered with yellow pile.

Wings hyaline, projecting a short distance beyond the tip of abdomen. Length from 6 to 7.5 mm.